is greater than a maximum or less than a minimum,

wherein if any of the [detector] detectors detects a negative difference, the controller selects the largest negative difference and controls the charging current to increase the largest negative difference to a zero difference, and

wherein if none of the [detector] detectors detects a negative difference, the controller selects the largest positive difference and controls the charging current to decrease the largest positive difference to a zero difference.

11. (ONCE AMENDED) An electronic apparatus connected to an AC adapter, capable of charging a battery by using power from the AC adapter while making a load operate by using the DC power supplied from the AC adapter, the power given to the load varying based on the state of the load, the electronic apparatus comprising:

a connector connected to the AC adapter, for receiving DC power from the AC adapter;

a charger, connected to the battery, for supplying charging power to the battery by using the power from the connecter; and

a charge control circuit for controlling the charger to control the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery becomes a value assigned in advance.

12. (ONCE AMENDED) An electronic apparatus as set forth in claim 11, further comprising a charging current detector for detecting a charging current supplied to the battery, wherein the charge control circuit controls the charging current so that the charging current becomes equal to or lower than a value assigned to the battery, based on a value of the charging current to the battery detected by the charging current detector.

13. (ONCE AMENDED) An electronic apparatus as set forth in claim 11, further comprising a charging voltage detector for detecting a charging voltage supplied to the battery, wherein the control circuit controls the charging voltage so that the charging voltage becomes equal to or lower than a value assigned to the battery, based on a value of the charging voltage to the battery detected by the charging voltage detector.

14. (ONCE AMENDED) An electronic apparatus as set forth in claim 11, wherein the value assigned in advance is a maximum permissible supply power of the AC adapter.

15. (ONCE AMENDED) An electronic apparatus as set forth in claim 11, wherein the charge control circuit controls the charging power the charger supplies to the battery, based on sensed information on the power input from the connector, so that a sum of the power applied to the load and the power charged to the battery becomes the value assigned in advance.

16. (ONCE AMENDED) A charging apparatus for charging a battery for an electronic apparatus that is connected to an AC adapter and that is capable of charging the battery by using power from the AC adapter while the electronic apparatus making a load operate by using DC power supplied from the AC adapter, the power given to the load varying based on the state of the load, the charging apparatus comprising:

a charger, connected to the battery, for supplying charging power to the battery by using the power from a connector that is connected to the AC adapter to receive the DC power from the AC adapter; and

a charge control circuit for controlling the charger to control the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery becomes a value assigned in advance.

17. (ONCE AMENDED) A charging apparatus as set forth in claim 16, wherein the charge control circuit controls the charging current so that a charging current becomes equal to or lower than the value assigned to the battery, based on a detected value of the charging current to the battery.

18. (ONCE AMENDED) A charging apparatus as set forth in claim 16, wherein the charge control circuit controls a charging voltage so that the charging voltage becomes equal to or lower than a value assigned to the battery, based on a detected value of the charging voltage to the battery.

19. (ONCE AMENDED) A charging apparatus as set forth in claim 16, wherein the value assigned in advance is a maximum permissible supply power of the AC adapter.

20. (ONCE AMENDED) A charging apparatus as set forth in claim 16, wherein the charge control circuit controls the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery becomes the value assigned in advance, based on sensed information on the power input from the connector.

21. (ONCE AMENDED) A charge control circuit for controlling a charger in an electronic apparatus having a connector connected to an AC adapter to receive DC power from the AC adapter, the charger being connected to a battery and supplying charging power to the battery by using the power from the connector, the electronic apparatus making a load operate by using the DC power supplied from the AC adapter, the power given to the load varying based on the state of the load, the charge control circuit comprising:

a control circuit for controlling the charger to control the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power

charged to the battery becomes a value assigned in advance.

22. (ONCE AMENDED) A charge control circuit as set forth in claim 21, wherein the control circuit controls a charging current based on a detected value of the charging current to the battery so that the charging current becomes equal to or lower than a value assigned to the battery.

23. (ONCE AMENDED) A charge control circuit as set forth in claim 21, wherein the control circuit controls a charging voltage based on a detected value of the charging voltage to the battery so that the charging voltage becomes equal to or lower than a value assigned to the battery.

24. (ONCE AMENDED) A charge control circuit as set forth in claim 21, wherein the value assigned in advance is a maximum permissible supply power of the AC adapter.

25. (ONCE AMENDED) A charge control circuit as set forth in claim 21, wherein the control circuit controls the charging power the charger supplies to the battery, based on sensed information on the power input from the connector, so that a sum of the power applied to the load and the power charged to the battery becomes the value assigned in advance.

26. (ONCE AMENDED) An electronic apparatus capable of charging a battery by using power from a power source while making a load operate by using the power supplied from the power source, the electronic apparatus comprising:

a charger for supplying charging power to the battery by using the power from the power source;

a detector for detecting the power applied to the load;

a charging current detector for detecting a charging current to the battery; and

a control circuit for controlling the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load that has been detected becomes a value assigned in advance, and for controlling the charging current based on the detected charging current so that the charging current to the battery becomes equal to or lower than a charging current value assigned in advance to the battery.

27. (ONCE AMENDED) An electronic apparatus capable of charging a battery by using power from a power source while making a load operate by using the power supplied from the power source, the electronic apparatus comprising:

a charger for supplying charging power to the battery by using the power from the power source;

a detector for detecting the power applied to the load;

a charging voltage detector for detecting a charging voltage to the battery; and

a control circuit for controlling the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load that has been detected becomes a value assigned in advance, and for controlling the charging voltage based on the detected charging voltage so that the charging voltage becomes within a voltage value assigned in advance to the battery.

28. (ONCE AMENDED) An electronic apparatus capable of charging a battery by using power from a power source having a prescribed maximum permissible supply power while making a load operate by using the power supplied from the power source, the electronic apparatus comprising:

a charger for supplying charging power to the battery by using the power from the power source;

a detector for detecting the power applied to the load; and

a control circuit for controlling the charger to adjust the charger to supply the charging power so that the charging power is the prescribed maximum permissible supply power minus the detected power applied to the load.

29. (ONCE AMENDED) A charging apparatus for an electronic apparatus capable of charging a battery by using power from a power source while the electronic apparatus makes a load operate by using the power supplied from the power source, the charging apparatus comprising:

a charger for supplying charging power to the battery by using the power from the power source; and

a control circuit for controlling the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load detected by a detector for detecting the power applied to the load becomes a value assigned in advance, and for controlling the charging current, based on a charging current value detected by a charging current detector for detecting the charging current to the battery, so that the charging current to the battery becomes equal to or lower than a charging current value assigned in advance to the battery.

30. (ONCE AMENDED) A charging apparatus for an electronic apparatus capable of charging a battery by using power from a power source while the electronic apparatus making a load operate by using the power supplied from the power source, the charging apparatus comprising:

a charger for supplying charging power to the battery by using the power from the power source;

and a control circuit for controlling the charger to generate the charging power

so that a sum of the charging power supplied to the battery and the power applied to the load detected by a detector for detecting the power applied to the load becomes a value assigned in advance, and for controlling the charging voltage, based on a charging voltage detected by a charging voltage detector for detecting the charging voltage of the battery, so that the charging voltage becomes within a voltage value assigned in advance to the battery.

31. (ONCE AMENDED) A charging apparatus for an electronic apparatus capable of charging a battery by using power from a power source having a prescribed maximum permissible supply power while the electronic apparatus makes a load operate by using the power supplied from the power source, the charging apparatus comprising:

a charger for supplying charging power to the battery by using the power from the power source; and

a control circuit for controlling the charger so that the charger supplies the charging power so that the charging power is the maximum permissible supply power minus the power applied to the load that has been detected by a detector for detecting the power applied to the load.

32. (ONCE AMENDED) A charge control circuit for controlling a charger for an electronic apparatus that makes a load operate by using power supplied from a power source and that has the charger for supplying charging power to a battery by using the power from the power source, the charge control circuit comprising:

a control circuit for controlling the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load detected by a detector for detecting the power applied to the load becomes a value assigned in advance, and for controlling a charging current, based on a charging current detected by a charging current detector for detecting the charging current to the battery, so that the charging

current supplied to the battery becomes equal to or lower than a charging current value assigned in advance to the battery.

33. (ONCE AMENDED) A charge control circuit for controlling a charger for an electronic apparatus that makes a load operate by using power supplied from a power source and that has the charger for supplying charging power to a battery by using the power from the power source, the charge control circuit comprising:

a control circuit for controlling the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load detected by a detector for detecting the power applied to the load becomes a value assigned in advance, and for controlling the charging voltage, based on a charging voltage detected by a charging voltage detector for detecting the charging voltage of the battery, so that the charging voltage becomes within a voltage value assigned in advance to the battery.

34. (ONCE AMENDED) A charge control circuit for controlling a charger for an electronic apparatus that makes a load operate by using power supplied from a power source having a prescribed maximum permissible supply power and that has the charger for supplying charging power to a battery by using the power from the power source, the charge control circuit comprising:

a control circuit for controlling the charger so that the charger supplies the charging power which is the prescribed maximum permissible supply power minus the power applied to the load detected by a detector for detecting the power applied to the load.

35. (ONCE AMENDED) An electronic apparatus capable of charging a battery by using an input voltage supplied from a power source while applying the input voltage to a load, an output of said power source being substantially constant voltage, comprising:

a charger for supplying charging power to the battery by using an input voltage from the power source;

a detector for detecting an input voltage from the power source; and

a control circuit for adjusting the charging power the charger supplies to the battery, based on the detected input voltage.

36. (ONCE AMENDED) An electronic apparatus capable of charging a battery by using an input voltage supplied from a power source while applying the input voltage to a load, an output of said power source being substantially constant voltage, the power applied to the load varying based on the state of the load, comprising:

a charger for supplying charging power to the battery by using an input voltage from the power source;

a detector for detecting an input voltage from the power source; and

a control circuit for adjusting the charging power the charger supplies to the battery based on the detected input voltage.

37. (ONCE AMENDED) An electronic apparatus capable of charging a battery by using an input voltage supplied from a power source while the electronic apparatus applies the input voltage to a load, the input voltage having a substantially constant value for power source currents less than or equal to a predetermined value, the input voltage decreasing toward a lesser value for power source currents greater than the predetermined value, the electronic apparatus comprising:

a charger for supplying charging power to the battery by using the input voltage;

a detector for detecting the input voltage; and

a control circuit for controlling the charger based on the detected input voltage

to generate a maximum permissible charging power where the input voltage has the substantially constant value and to reduce the charging power where the input voltage has the decreasing value so that the input voltage does not decrease below the lesser value due to the generation of the charging power.

41. (ONCE AMENDED) An electronic apparatus as set forth in claim 35, further comprising:

a charging current detector for detecting a charging current to the battery, wherein the control circuit controls the charging current based on the detected charging current so that the charging current becomes equal to or lower than a current value assigned to the battery.

42. (ONCE AMENDED) An electronic apparatus as set forth in claim 36, further comprising:

a charging current detector for detecting a charging current to the battery, wherein the control circuit controls the charging current based on the detected charging current so that the charging current becomes equal to or lower than a current value assigned to the battery.

43. (ONCE AMENDED) An electronic apparatus as set forth in claim 37, further comprising:

a charging current detector for detecting a charging current to of the battery, wherein the control circuit controls the charging current based on the detected charging current so that the charging current becomes equal to or lower than a current value assigned to the battery.

44. (ONCE AMENDED) An electronic apparatus as set forth in claim 35, further comprising:

a charging voltage detector for detecting a charging voltage of the battery, wherein the control circuit controls the charging voltage based on the detected charging voltage so that the charging voltage becomes equal to or lower than a voltage value assigned to the battery.

45. (ONCE AMENDED) An electronic apparatus as set forth in claim 36, further comprising:

a charging voltage detector for detecting a charging voltage of the battery, wherein the control circuit controls the charging voltage based on the detected charging voltage so that the charging voltage becomes equal to or lower than a voltage value assigned to the battery.

46. (ONCE AMENDED) An electronic apparatus as set forth in claim 37, further comprising:

a charging voltage detector for detecting a charging voltage of the battery, wherein the control circuit controls the charging voltage based on the detected charging voltage so that the charging voltage becomes equal to or lower than a voltage value assigned to the battery.

53. (ONCE AMENDED) A charging apparatus for an electronic apparatus, the charging apparatus capable of charging a battery by using an input voltage supplied from a power source while the electronic apparatus applies the input voltage to a load, an output of said power source being substantially constant voltage, the charging apparatus comprising:

a charger for supplying charging power to the battery by using an input voltage

from the power source; and

a control circuit for adjusting the charging power the charger supplies to the battery, based on an input voltage detected by a detector for detecting the input voltage from the power source.

54. (ONCE AMENDED) A charging apparatus for an electronic apparatus capable of charging a battery by using an input voltage supplied from a power source while the electronic apparatus applying the input voltage to a load, an output of said power source being substantially constant voltage , the power applied to the load varying based on the state of the load, the charging apparatus comprising:

a charger for supplying charging power to the battery by using an input voltage from the power source; and

a control circuit for adjusting the charging power the charger supplies to the battery, based on an input voltage detected by a detector for detecting the input voltage from the power source.

55. (ONCE AMENDED) A charging apparatus for an electronic apparatus capable of charging a battery by using an input voltage supplied from a power source while the electronic apparatus applies the input voltage to a load, the input voltage having a substantially constant value for power source currents less than or equal to a predetermined value, the input voltage decreasing toward a lesser value for power source currents greater than the predetermined value, the charging apparatus comprising:

a charger for supplying charging power to the battery by using the input voltage;

a detector for detecting the input voltage; and

a control circuit for controlling the charger based on the detected voltage to

generate a maximum permissible charging power where the input voltage has the substantially constant value and to reduce the charging power where the input voltage has the decreasing value so that the input voltage does not decrease below the lesser value due to the generation of the charging power.

71. (ONCE AMENDED) A charge control circuit for controlling a charger for an electronic apparatus that applies an input voltage supplied from a power source to a load and has the charger for charging a battery by using the input voltage, an output of said power source being substantially constant voltage, the charge control circuit comprising:

a control circuit for adjusting the charging power the charger supplies to the battery, based on an input voltage detected by a detector for detecting the input voltage from the power source.

72. (ONCE AMENDED) A charge control circuit for controlling a charger for an electronic apparatus that applies an input voltage supplied from a power source to a load and has the charger for charging a battery by using the input voltage, an output of said power source being substantially constant voltage, the power applied to the load varying based on the state of the load, the charge control circuit comprising:

a control circuit for adjusting the charging power the charger supplies to the battery, based on an input voltage detected by a detector for detecting the input voltage from the power source.

73. (ONCE AMENDED) A charge control circuit for controlling a charger for an electronic apparatus that applies an input voltage supplied from a power source to a load and has the charger for charging a battery by using the input voltage, the input voltage having a substantially constant value for power source currents less than or equal to a predetermined

value, the input voltage decreasing toward a lesser value for power source currents greater than the predetermined value, the charge control circuit comprising:

a control circuit for controlling the charger based on a detected input voltage value detected by a detector for detecting the input voltage to generate a maximum charging power where the input voltage has the substantially constant value and to reduce the charging power where the input voltage has the decreasing value so that the input voltage does not decrease below the lesser value due to the generation of the charging power.

89. (ONCE AMENDED) An electronic apparatus capable of charging a battery by using power from a power source while making a load operate by using the power supplied from the power source, the power applied to the load from the power source varying based on the state of the load, the electronic apparatus comprising:

a charger for supplying charging power to the battery by using the power from the power source;

a charging current detector for detecting a charging current to the battery; and

a charge control circuit for controlling the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery from the power source becomes a value assigned in advance, and for controlling the charging current based on the charging current detected by the charging current detector so that the charging current becomes a limit value assigned to the battery or a lower value.

93. (ONCE AMENDED) A charging apparatus for an electronic apparatus that is capable of charging a battery by using power supplied from a power source while the electronic apparatus making a load operate by using the power from the power source, the power applied to the load from the power source varying based on the state of the load, the charging apparatus comprising:

a charger for supplying charging power to the battery by using the power from the power source; and

a charge control circuit for controlling the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery from the power source becomes a value assigned in advance, and for controlling the charging current, based on a charging current detected by a charging current detector for detecting the charging current to the battery, so that the charging current becomes a value assigned to the battery or a lower value .

97. (ONCE AMENDED) A charge control circuit for an electronic apparatus that makes a load operate by using power supplied from a power source and that has a charger for supplying charging power to a battery by using the power from the power source, the power applied to the load from the power source varying based on the state of the load, the charge control circuit comprising:

a control circuit for controlling the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery from the power source becomes a value assigned in advance, and for controlling the charging current based on a charging current detected by a charging current detector for detecting the charging current to the battery so that the charging current becomes a value assigned to the battery or a lower value.

101. (ONCE AMENDED) An electronic apparatus having an input section for inputting power from a power source and capable of charging a battery by using the power from the input section while the electronic apparatus makes a load operate by applying the power input from the input section to the load, an output voltage of the power source being substantially a constant voltage, the output voltage of the power source falling to less than said constant

voltage when the power source outputs more than a predetermined current value, the power applied to the load from the input section varying based on the state of the load , the electronic apparatus comprising:

a power input sensor for obtaining power-input information by sensing an input of the power from the input section;

a charger for charging the battery by using the power from the input section; and

a charge control circuit for controlling the charging power the charger supplies to the battery based on the power input information obtained by the power input sensor so that a sum of the power applied to the load and the power charged to the battery from the input section is substantially in a current range in which said output voltage of the power source is substantially the constant voltage.

104. (ONCE AMENDED) An electronic apparatus as set forth in claim 101, wherein the power source is able to supply a maximum permissible supply current of the power source in the current range.

105. (ONCE AMENDED) A charging apparatus for an electronic apparatus that has an input section for inputting power from a power source and is capable of charging a battery by using the power from the input section while the electronic apparatus makes a load operate by applying the power input from the input section to the load, an output voltage of the power source being substantially a constant voltage, the output voltage of the power source falling to less than said constant voltage when the power source outputs more than a predetermined current value, the power applied to the load from the input section varying based on the state of the load , the charging apparatus comprising:

a charger for charging the battery by using the power from the input section;

and

a charge control circuit for controlling the charging power the charger supplies to the battery, based on power input information obtained by a power input sensor for obtaining the power input information by sensing an input of the power from the input section, so that a sum of the power applied to the load and the power charged to the battery from the input section is substantially in a current range in which said output voltage of the power source is substantially the constant voltage.

108. (ONCE AMENDED) A charging apparatus as set forth in claim 105, wherein the power source is able to supply a maximum permissible supply current of the power source in the current range.

109. (ONCE AMENDED) A charge control circuit for an electronic apparatus that has an input section for inputting power from a power source and a charger for charging a battery by using the power from the input section while the electronic apparatus making a load operate by applying the power input from the input section to the load, an output voltage of the power source being substantially a constant voltage, the output voltage of the power source falling to less than said constant voltage when the power source outputs more than a predetermined current value, the power applied to the load from the input section varying based on the state of the load, the charge control circuit comprising:

a control circuit for controlling the charging power the charger supplies to the battery, based on power input information obtained by a power input sensor for obtaining the power input information by sensing an input of the power from the input section, so that a sum of the power applied to the load and the power charged to the battery from the input section is substantially in a current range in which said output voltage of the power source is substantially the constant voltage.

112. (ONCE AMENDED). A charge control circuit as set forth in claim 109, wherein the power source is able to supply a maximum permissible supply current of the power source in the current range.

Please ADD new claims 118-132 as follows:

118. (NEW) An electronic apparatus having an input section for inputting power from a power source and capable of charging a battery by using the power from the input section while making a load operate by applying the power input from the input section to the load, a current applied to the load from the input section varying based on the state of the load, the electronic apparatus comprising:

a power input sensor which obtains power-input information by sensing an input of the power from the input section;

a charger which charges the battery by using a current from the input section ; and

a charge control circuit which controls the charger to change a current charged to the battery by determining whether an input current from the power source reaches a predetermined value or not in accordance with the power-input information sensed by the power input sensor, so that a sum of the current applied to the load and the current charged to the battery from the input section does not exceed the predetermined value.

119. (NEW) An electronic apparatus as set forth in claim 118, further comprising:

a charging current detector which detects a charging current of the battery, wherein the charge control circuit controls the charging current based on the detected charging current so that the charging current becomes a value assigned to the battery or lower.

120. (NEW) An electronic apparatus as set forth in claim 118, further comprising:

a charging voltage detector which detects a charging voltage of the battery, wherein the charge control circuit controls the charging voltage so that the charging voltage detected by the charging voltage detector becomes a value assigned to the battery or lower.

121. (NEW) An electronic apparatus as set forth in claim 118, wherein the predetermined value is a maximum permissible supply current of the power source.

122. (NEW) A charging apparatus for an electronic apparatus that has an input section for inputting power from a power source and is capable of charging a battery by using the power from the input section while the electronic apparatus making a load operate by applying the power input from the input section to the load, a current applied to the load from the input section varying based on the state of the load, the charging apparatus comprising:

a charger which charges the battery by using the power from the input section; and

a charge control circuit which controls the charger to change a current charged to the battery by determining whether an input current from the power source reaches a predetermined value or not in accordance with the power-input information sensed by a power input sensor which obtains the power input information by sensing an input of power from the input section, so that a sum of the current applied to the load and the current charged to the battery from the input section does not exceed the predetermined value.

123. (NEW) A charging apparatus as set forth in claim 122, wherein

the charge control circuit controls the charging current, based on a charging current detected by a charging current detector for detecting the charging current of the battery, so that the charging current becomes a value assigned to the battery or lower.

124. (NEW) A charging apparatus as set forth in claim 122, wherein

the charge control circuit further controls the charging voltage so that a voltage detected by a charging voltage detector for detecting the charging voltage of the battery becomes a value assigned to the battery or lower.

125. (NEW) A charging apparatus as set forth in claim 122, wherein the predetermined value is a maximum permissible supply power of the power source.

126. (NEW) A charge control circuit for an electronic apparatus that has an input section for inputting power from a power source and a charger for charging a battery by using the power from the input section and while the electronic apparatus making a load operate by applying the power input from the input section to the load, a current applied to the load from the input section varying based on the state of the load, the charge control circuit comprising:

a charge control circuit which controls the charger to change a current charged to the battery by determining whether an input current from the power source reaches a predetermined value or not in accordance with the power-input information sensed by a power input sensor which obtains the power input information by sensing an input of power from the input section, so that a sum of the current applied to the load and the current charged to the battery from the input section does not exceed the predetermined value.

127. (NEW) A charge control circuit as set forth in claim 126, wherein the control circuit controls the charging current based a charging current detected by a charging current detector for detecting the charging current of the battery so that the charging current becomes a value assigned to the battery or lower.

128. (NEW) A charge control circuit as set forth in claim 126, wherein the control

circuit controls the charging voltage so that a voltage detected by a charging voltage detector for detecting the charging voltage of the battery becomes a value assigned to the battery or lower.

129. (NEW) A charge control circuit as set forth in claim 126, wherein the predetermined value is a maximum permissible supply power of the power source.

130. (NEW) An electronic apparatus to supply power from a power converter to a battery and a load, the electronic apparatus comprising:

a power supply circuit to receive a control input and produce a regulating signal that regulates the power supplied to the battery, which regulating signal is regulated in accordance with the control input;

a charging current comparator to compare a battery charging current with a reference current and to vary the control input based on the comparison of charging current comparator;

a charging voltage comparator to compare a battery voltage with a reference voltage and to vary the control input based on the comparison of the charging voltage comparator;

a power converter regulator to vary the control input to limit the current drawn from the power converter to a power converter maximum output current; and

a charger to supply the power from the power converter to the battery based on said regulating signal.

131. (NEW).A battery charging apparatus to regulate power supplied to a battery from a power converter which also supplies power to a load, comprising:

a power supply circuit to receive a control input and produce a regulating signal

that regulates the power supplied to the battery, which regulating signal is regulated in accordance with the control input;

a charging current comparator to compare a battery charging current with a reference current and to vary the control input based on the comparison of charging current comparator;

a charging voltage comparator to compare a battery voltage with a reference voltage and to vary the control input based on the comparison of the charging voltage comparator;

a power converter regulator to vary the control input to limit the current drawn from the power converter to a power converter maximum output current; and

a charger to supply the power from the power converter to the battery based on said regulating signal.

132. (NEW). A battery charging control device to regulate power supplied to a battery from a power converter which supplies power to a load, comprising:

a power supply circuit to receive a control input and produce a regulating signal that regulates the power supplied to the battery, which regulating signal is regulated in accordance with the control input;

a charging current comparator compare a battery charging current with a reference current and to vary the control input based on the comparison of charging current comparator;

a charging voltage comparator to compare a battery voltage with a reference voltage and to vary the control input based on the comparison of the charging voltage comparator; and

a power converter regulator to vary the control input to limit the current drawn from the power converter to a power converter maximum output current.